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INTERNATIONAL SEARCH REPORT

NOV 2 8 2005

(PCT Article 18 and Rules 43 and 44)

Apı	plicant's o r agent' s file reference	FOR FURTHER ACTION	see Notification of Transmittal of International Search (Form PCT/ISA/220) as well as, where applicable, iten below.				
	ernational application No. T/US03/13765	International filing date (day/mon 02 May 2003 (02.05.2003)					
	plicant DLECULAR PROBES, INC.						
Thi	s international search report has been ording to Article 18. A copy is being	en prepared by this International Se	arching Authority and is transmitted to the appli 3ureau.				
Thi	s international search report consist	s of a total ofsheets.					
		ed by a copy of each prior art docu	ment cited in this report.				
1.	Basis of the Report a. With regard to the language,	the international search was carried d, unless otherwise indicated under the	out on the basis of the international application in				
			us nem. tion of the international application furnished to th				
	Authority (Rule 23.1(b)).	b danied dut on the dasis of a francis	non or the international application furnished to the				
	b. With regard to any nucleotid search was carried out on the	e and/or amino acid sequence disch basis of the sequence listing:	osed in the international application, the internation				
	contained in the internation	al application in written form.					
	filed together with the inte	roational application in computer rea	dable form.				
	furnished subsequently to t	his Authority in written form.					
	furnished subsequently to t	his Authority in computer readable for	orm.				
	the statement that the subse		isting does not go beyond the disclosure in the				
	the statement that the infor- been furnished.	mation recorded in computer readable	e form is identical to the written sequence listing b				
2.	Certain claims were found	d unsearchable (See Box I).					
3. 4.	Unity of invention is lacki With regard to the title,	ng (See Box II).					
	the text is approved as subr	nitted by the applicant.					
	the text has been established	d by this Authority to read as follows	11				
5 .	With regard to the abstract,						
	the text is approved as subr	the text is approved as submitted by the applicant.					
	the text has been established within one month from the	d, according to Rule 38.2(b), by this date of mailing of this international a	Authority as it appears in Box III. The applicant rearch report, submit comments to this Authority.				
6.	The figure of the drawings to be pu		5				
	as suggested by the applica	ted by the applicant. None of the figures					
	because the applicant failed	to suggest a figure.					
	herause this figure horses el	aracterizes the invention.					

	INTERNATIONAL SEARCH REPO	ORT	International app	dication No.			
			PCT/US03/1376	i5			
IPC(7) US CL According to	ASSIFICATION OF SUBJECT MATTER : C07D 239/88, 277/62, 311/82, 417/02, 495/0 : 536/3; 544/287; 548/110, 179, 304.1; 549/22 o International Patent Classification (IPC) or to both LDS SEARCHED	27: 43 <i>5/7</i> .1, 7 .5	C08B 37/04; G01N 33/53				
	documentation searched (classification system followed by classification symbols)						
U.S.: 536/3; 544/287; 548/110, 179, 304.1; 549/227; 435/7.1, 7.5							
Documentati	ion searched other than minimum documentation to the	he extent that su	ch documents are included	in the fields searched			
Electronic de CAS ONLIN	ata base consulted during the international search (na: RE	me of data base	and, where practicable, see	arch terms used)			
C. DOC	UMENTS CONSIDERED TO BE RELEVANT						
Category *	Citation of document, with indication, where	appropriate, of	the relevant passages	Relevant to claim l			
A, P	EP 1215501 A1 (TWU) 19 June 2002 (19.06.2002)			1-61			
A	US 5,049,673 A (TSIEN et al) 17 September 1991	69					
A	GEE et al. New Ratiometric Fluorescent Calcium I Binding Affinities. Bioorganic and Medicinal Chen 1515-1518.	Indicators with I nistry Letters. 2	69				
	documents are listed in the continuation of Box C.		patent family annex.				
"A" documeni	octial categories of cited documents: defining the general state of the art which is not considered to be ar relevance	dat	or document published after the interest and not in conflict with the application or theory underlying the investigling the investigation of the investigation	sation but cited to understan			
	earlier application or patent published on or after the international filing date		"X" document of particular relevance; the class considered novel or camon be considered when the document is taken alone				
establish ti specified)	which may throw doubts on priority claim(s) or which is cited to be publication date of another citation or other special reason (as	"Y" document of particular relevance; the considered to involve an investive step combined with one or more other such		when the document is			
	referring to an oral disclosure, use, exhibition or other means published prior to the international filing date but later than the	bei	ng obvious to a person skilled in the ument member of the same patent	ė ari			
	tual completion of the international search	Date of maili	ng of the international scare	ch report			
8 January 20	05 (28.01,2005)	1 0	1 MAR 2005	1 0			
Name and mai Mail	ling address of the ISA/US Stop PCT, Atm: ISA/US missioner for Patents	Authorized of	Mouga	gable			
P.O. Alex	nussiance for Pacents Box 1450 andria, Virginia 22313-1450 (703) 305-3230		. 703-308-1235				
uminite 140.	(705) 303-3230 210 (second sheet) (Yuly 1998)	<u> </u>					

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filled and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged:
- (ii) the claim is cancelled;
- (iii) the claim is new:
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where onginally there were 48 claims and after amendment of some claims there are 51]:
 "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers;
 claims 30, 33 and 36 unchanged: new claims 49 to 51 added."
- (Where originally there were 15 claims and after amendment of all claims there are 11): "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims]: "Claims I to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added," or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- 4. [Where various kinds of amendments are made]:
 "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the international Bureau, also file with the international Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a manislation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated elected Office, see the PCT Applicant's Guide,

Notes to Form, PCT ISA/220 (second sheet) (July 1998; reprint April 20/2)